

Tien Pham



Kotlin?

Kotlin

- JVM based language
- · Jetbrains, IntelliJ IDEA, heard of them?
- Focus on readability, correctness, and developer productivity

Kotlin

- Lightweight (<7000 methods)
- Easy to learn
- Highly interoperable
- Perfectly integrated with Android Studio and Gradle

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▼ com.squareup.cash.util
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😉 🚡 AnalyticsData
😉 🚡 BackStacks
😉 🚡 Calendars
🕒 🚡 CardBrandGuesser
© ७ CashVibrator
CheatSheet
Constants
🕒 🚡 DecorLayoutResizer
😉 🚡 DirectByteArrayOutputStream
to a Emails
📵 🚡 Hashing
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🕲 🚡 Keyboards

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6	MaxSizeTransformation
6	Moneys
6 6	Objects
C %	Parcelables
6 6	Payments
6 6	Permissions
6 3	PhoneNumbers
a	Preconditions
6	SparseArrays
6 3	Strings
6 9	TestCrasher
€ 3°	Threads
e e	Views

- Kotlin allows the declaration of both static and instance methods into types which you do not control.
- Kotlin doesn't eliminate utility methods it gives them superpowers!

```
fun String.last() : Char {
    return this[length() - 1]
}

val x = "Hey!";
println(x.last())
```

```
fun String?.isNullOrEmpty() : Boolean {
    return this == null || this.length() == 0
}

val nullString: String? = null
println(nullString.isNullOrEmpty())
```

```
fun View.shake() {
    ObjectAnimator.
            ofFloat(this, "rotation",
            0f, 10f, -10f, 6f,
            -6f, 3f, -3f, 0f)
            .setDuration(400).start()
myTextView.shake()
myButton.shake()
```

Lambdas

Lambdas

```
fun saySomething(name: String, f: (String) -> Unit) {
    f(name)
}
saySomething("Kotlin",
{name -> println("Hello $name")})
```

Lambdas

Null Safety

Null Safety

Kotlin is null-safe!!!

Null Safety

```
var artist: Artist? = null
var notNullArtist: Artist = null
artist?.print()
artist.print()
if (artist != null) {
    artist.print()
// Use Elvis operator to give an alternative in case the object is null
val name = artist?.name ?: "empty"
// Only use it when we are sure it's not null.
// Will throw an exception otherwise.
artist!!.print()
```

Data classes

Classes that do nothing but hold data

data class User(val name: String, val age: Int)

Implicit casting

```
var x: Object = "Hi"
val length = x.length() // Doesn't compile

if (x is String) {
    x.length() // Compiles!!!
}
```

Implicit casting

```
var x: Object? = "Hi"

if (x != null) {
   val y: Object = x // x is a non-null type here
}
```

Lazy properties

```
var p: String by Delegate()
val lazyValue: String by lazy { expensiveOperation()
```

But Scala is way better!



"Tiếng Tây Tiếng Ta" là một game đoán chữ giúp bạn dễ nhớ từ vựng tiếng Anh hơn hoặc là không

Q&A